	Application No.	**Applicant(s)**
Notice of Allowability	10/693,854	RELYEA ET AL.
	Examiner	**Art Unit**	
	BEN C. WANG	2192	

*-- The **MAILING DATE** of this communication appears on the cover sheet with the correspondence address--*

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *December 8, 2009*.

2. ☒ The allowed claim(s) is/are *1, 4-14, 16, 19, 20, and 23-25 (renumbered as 1-17)*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None   of the:

        1. ☐ Certified copies of the priority documents have been received.

        2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

        3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☒ Interview Summary (PTO-413), Paper No./Mail Date *20100202* .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____.

/Ben C Wang/
Examiner, Art Unit 2192

/Michael J. Yigdall/
Primary Examiner, Art Unit 2192

DETAILED ACTION

1.   Applicant's amendment dated December 8, 2009, responding to the Office action mailed November 17, 2009 provided in the rejection of claims 1, 4-8, 10-14, 16, 17, and 19-25, wherein claims 1, 4-7, 17, and 23 have been amended.

EXAMINER'S AMENDMENT

2.   An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

3.   Authorization for this examiner's amendment was given in a telephone interview with Mr. Peck (Reg. No. 56826) on February 4, 2010 to further amend claims 1, 19, 20, and 23; and cancel claims 17, 21, and 22 (see Examiner's Amendment below) and thus to obviate any potential 35 U.S.C 101 and 35 U.S.C 112, second paragraph issues and to place the claims in the condition for allowance.

4.   The application has been amended as follows:

IN THE CLAIMS,

Please amend claims 1, 19, 20, and 23; and cancel claims 17, 21, and 22

as follows:

1.   (Currently Amended) A programming interface embodied on

one or more computer readable storage media having computer-

executable instructions for performing steps comprising:

generating graphical objects using a first group of services, wherein

the first group of services includes a service that customizes a behavior of

the graphical objects to style and/or theme the graphical objects, the

service including interfaces for controlling a behavior of a menu item, for

controlling a visibility behavior of a scroll bar, and for controlling selection

behavior of a listbox;

formatting content using a second group of services, wherein the

second group of services arranges the graphical objects;

creating components of the graphical objects using a third group of

services;

binding elements to data sources, data source classes, and data

specific implementations of data collections using a fourth group of

services, wherein the fourth group of services further handle exceptions in

data entry;

providing a plurality of media classes using a fifth group of services,

the media classes enabling image effects to be applied to portions of

images and coordinating a set of animations with a set of timelines;

> providing classes using a sixth group of services that enable editing of forms and text, formatting data, and cross-process data sharing;

> instantiating an input manager using a seventh group of services, the input manager coordinating inputs received by the system;

> providing a set of classes and services using an eighth group of services that allow building of applications with navigation paradigms;

> providing a set of classes using a ninth group of services that support accessibility and user interface automation;

> providing a parser using a tenth group of services that can load or save a hierarchy of objects from or to an extensible markup language (XML) or binary file and set properties associated with objects and event handlers;

> providing a set of classes using an eleventh group of services that enable interoperability with other operating systems or computer platforms;

> providing an element using a twelfth group of services that allows an application to host a form control operation;

> using a common markup language to map classes and properties specified in the markup language to an instantiated tree of objects across the groups of services; and

> integrating the groups of services using a consistent programming model and consistent services across the service groups.

2.   (Canceled)

3.   (Canceled)

4.   (Previously Presented) A programming interface as recited in claim 1, wherein the groups of services share a common event system.

5.   (Previously Presented) A programming interface as recited in claim 1, wherein the groups of services share a common property definition system.

6.   (Previously Presented) A programming interface as recited in claim 1, wherein the groups of services share a common input paradigm.

7.   (Previously Presented) A programming interface as recited in claim 1, wherein the groups of services share a common system for nesting elements associated with a particular group of services within elements associated with another group of services.

8.   (Original) A programming interface as recited in claim 1, wherein the first group of services includes a service that determines an

appearance of the graphical objects.

9.   (Canceled)

10.   (Original) A programming interface as recited in claim 1, wherein the first group of services includes a service that determines an arrangement of the graphical objects.

11.   (Original) A programming interface as recited in claim 1, wherein the first group of services includes a plurality of nested elements that define the graphical objects.

12.   (Original) A programming interface as recited in claim 1, wherein the graphical objects are comprised of one or more elements defined by vector graphics.

13.   (Original) A programming interface as recited in claim 1, wherein the first group of services can define window properties in a markup language without launching a new window.

14.   (Original) A programming interface as recited in claim 1, wherein the first group of services generate a user interface containing a plurality of graphical objects.

15.   (Canceled)

16.   (Original) A software architecture comprising the programming interface as recited in claim 1.

17.   (Canceled)

18.   (Canceled)

19.   (Currently Amended) ~~An application~~ A programming interface as recited in claim [[17]] 1, wherein the third group of services includes services to generate geometric shapes.

20.   (Currently Amended) ~~An application~~ A programming interface as recited in claim [[17]] 1, wherein the second group of services includes arranging a plurality of data elements.

21.   (Canceled)

22.   (Canceled)

23.   (Currently Amended) A computer system including one or

more microprocessors and one or more software programs, the one or

more software programs utilizing a programming interface to request

services from an operating system, the programming interface including

separate commands to request services consisting of the following groups

of services:

a first group of services for generating graphical objects, wherein

the first group of services includes a service that customizes a behavior of

the graphical objects to style and/or theme the graphical objects, the

service including interfaces for controlling a behavior of a menu item, for

controlling a visibility behavior of a scroll bar, and for controlling selection

behavior of a listbox;

a second group of services for formatting content, wherein the

second group of services arranges the graphical objects;

a third group of services for creating components of the graphical

objects; and

a fourth group of services that bind elements to data sources, data

source classes, and data specific implementations of data collections,

wherein the fourth group of services further handle exceptions in data

entry; ~~and~~

~~at least one of:~~

a fifth group of services for providing a plurality of media classes

that enable image effects to be applied to portions of images and

coordinate a set of animations with a set of timelines;

a sixth group of services for providing classes that enable editing of forms and text, formatting data, and cross-process data sharing;

a seventh group of services for instantiating an input manager that coordinates inputs received by the system;

an eighth group of services for providing a set of classes and services that allow building of applications with navigation paradigms;

a ninth group of services for providing a set of classes that support accessibility and user interface automation;

a tenth group of services for providing a parser that can load or save a hierarchy of objects from or to an <u>extensible markup language</u> <u>(XML)</u> or binary file and that sets properties associated with objects and event handlers;

an eleventh group of services for providing a set of classes that enable interoperability with other operating systems or computer platforms; and

a twelfth group of services for providing an element that allows an application to host a form control operation,

wherein the groups of services are integrated by sharing a common programming model, consistent services and using a common markup language to map classes and properties specified in the markup language to an instantiated tree of objects across the groups of services.

24.   (Previously Presented) A computer system as recited in

claim 23, wherein the first group of services includes:

a service for defining an appearance of the graphical objects.

25.   (Previously Presented) A computer system as recited in

claim 23, wherein the third group of services includes services to

generate a plurality of geometric shapes.

26 - 34. (Canceled)

-    **END OF AMENDMENT –**

Allowable Subject Matter

5.   Claims 1, 4-14, 16, 19, 20, and 23-25 (renumbered as 1-17) are allowed.

6.   The following is an examiner's statement of reasons for allowance:

The cited prior art taken alone or in combination fails to suggest

"A programming interface …

        generating graphical objects … a service that customizes a

behavior of the graphical objects to style and/or theme the graphical

objects, the service including interfaces for controlling a behavior of a

menu item, for controlling a visibility behavior of a scroll bar, and for

controlling selection behavior of a listbox;

        formatting content … arranges the graphical objects;

        creating components of the graphical objects …

        binding elements to data sources, data source classes, and data

specific implementations of data collections … handle exceptions in data

entry;

        providing a plurality of media classes … enabling image effects to

be applied to portions of images and coordinating a set of animations with

a set of timelines;

        providing classes … enable editing of forms and text, formatting

data, and cross-process data sharing;

        instantiating an input manager … the input manager coordinating

inputs received by the system;

> providing a set of classes and services ... allow building of
>
> applications with navigation paradigms;
>
> providing a set of classes ... support accessibility and user
>
> interface automation;
>
> providing a parser ... can load or save a hierarchy of objects from
>
> or to an extensible markup language (XML) or binary file and set
>
> properties associated with objects and event handlers;
>
> providing a set of classes ... enable interoperability with other
>
> operating systems or computer platforms;
>
> providing an element ... allows an application to host a form control
>
> operation;
>
> using a common markup language to map classes and properties
>
> specified in the markup language to an instantiated tree of objects across
>
> the groups of services; and
>
> integrating the groups of services using a consistent programming
>
> model and consistent services across the service groups.", as recited in
>
> independent claims 1 and similarly recited in independent claim 23.

7.   Claims (4-14, 16, 19, 20) and (24, 25) are considered allowable by virtue

of their dependence on allowable independent claims 1 and 23 respectively.

8.   Any comments considered necessary by applicant must be submitted no

later than the payment of the issue fee and, to avoid processing delays, should

preferably accompany the issue fee. Such submissions should be clearly labeled

"Comments on Statement of Reasons for Allowance."

Conclusion

9.   Any inquiry concerning this communication or earlier communications from

the examiner should be directed to Ben C. Wang whose telephone number is

(571) 270-1240. The examiner can normally be reached on 8:00-5:30

(EST/EDT), Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Tuan Q. Dam can be reached on (571) 272-3695. The fax

phone number for the organization where this application or proceeding is

assigned is 571-273-8300. Information regarding the status of an application may

be obtained from the Patent Application Information Retrieval (PAIR) system.

Status information for published applications may be obtained from either Private

PAIR or Public PAIR. Status information for unpublished applications is available

through Private PAIR only. For more information about the PAIR system, see

http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197

(toll-free). If you would like assistance from a USPTO Customer Service

Representative or access to the automated information system, call 800-786-

9199 (IN USA OR CANADA) or 571-272-1000.

/Ben C Wang/   /Michael J. Yigdall/

Examiner, Art Unit 2192   Primary Examiner, Art Unit 2192